


LAI

## LAI High Resolution Colony Counter



**Loats Associates, Inc.**

Genetic Toxicology Systems for Microbus Assay, Metaphase Finding, Colony Counting and Comet Assay.  
Biomedical Image Analysis Software and Systems - Inquiry for Windows - 3D Brainstation for Macintosh

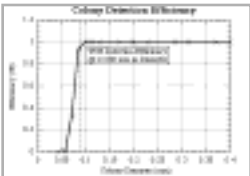
Loats Associates, Inc.

540 East Main St. - Rochester, NY 14627 - 414-879-4500

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## Detection Efficiency

The 95% colony efficiency detection limit has been determined to be 0.088mm diameter. Note that colonies with a diameter smaller than 0.088 mm (below the 95% detection limit) can be detected by the system but less than 95% of the time.. The smallest detectable colony is 0.06mm in diameter



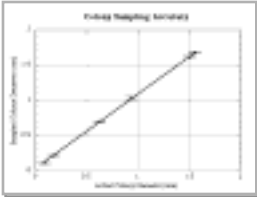
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## Accuracy

The accuracy of the system was determined by sampling a distributed number of circular dots of a known diameter and comparing the sampled diameter to the true diameter



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### LAI HR CC System Features

- n Adaptive Automated Background Correction
- n Objective Automated Delineation of Colonies
- n Multiple Quantitative Measure Generation and Databasing
- n Automated Statistical Analysis and Report Generation.
- n Data Review, Visualization and Reporting
- n GLP Compliance Support
- n Ease of Operation

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### GLP Ready

- n Tools for Audits and Quality Control
- n Integrated database
- n Digital record of dish images and frequency distribution of colonies
- n Change Logs record Username, Date, Time, Event, Comments, Change Data

Colonies falling in specified size range highlighted on image

Zoom in to show sizes or counts of colonies.

Change Log - audit trail

Date	Time	Event	Comments
01/18/01	10:00	System Administrator	Initial System Setup
01/18/01	10:05	System Administrator	Initial System Setup
01/18/01	10:10	System Administrator	Initial System Setup
01/18/01	10:15	System Administrator	Initial System Setup
01/18/01	10:20	System Administrator	Initial System Setup
01/18/01	10:25	System Administrator	Initial System Setup
01/18/01	10:30	System Administrator	Initial System Setup
01/18/01	10:35	System Administrator	Initial System Setup
01/18/01	10:40	System Administrator	Initial System Setup
01/18/01	10:45	System Administrator	Initial System Setup
01/18/01	10:50	System Administrator	Initial System Setup
01/18/01	10:55	System Administrator	Initial System Setup
01/18/01	11:00	System Administrator	Initial System Setup

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### Security

- n Username and Password Protected
- n Multi level Security: Administrator, Standard User, Review Only

System Administrator:  
 Allow Users to Change password only  
 Standard System Change  
 Review Data Only

(Show user to lock out changes)

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## Reporting

- Statistical reports available immediately after all plates counts are complete
- Formatted for regulatory submissions
- Annotations for toxic cultures, contaminated plates, broken plates, and manual counts
- Customizable

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Average replicate plates    Sum replicate plates

## Hi-Res FireWire Digital CCD Color Microscope Camera

Qimaging Micropublisher 5.0

- 2560 x 1920 active pixels
- Pixel Size : 3.4  $\mu\text{m}$  x 3.4  $\mu\text{m}$

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## Electro Luminescent Light Source

- Flat source - minimizes illumination variations
- Reduces glare
- Reduces space requirements
- 710,000 hour life

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